

Title (en)

PERFORMING ERROR CONTROL OPERATION ON MEMORY COMPONENT FOR GARBAGE COLLECTION

Title (de)

VERFAHREN ZUR FEHLERKONTROLLE AUF EINEM SPEICHERBAUTEIL ZUR BEREINIGUNG

Title (fr)

RÉALISATION D'UNE OPÉRATION DE TRAITEMENT D'ERREURS SUR UN COMPOSANT DE MÉMOIRE DESTINÉE À LA COLLECTE D'INFORMATIONS SUPERFLUES

Publication

EP 4018315 A4 20230809 (EN)

Application

EP 20854656 A 20200819

Priority

- US 201962889280 P 20190820
- US 202016995334 A 20200817
- US 2020047074 W 20200819

Abstract (en)

[origin: US2021055990A1] Systems, apparatuses, and methods related to media management, including “garbage collection,” in memory or storage systems or sub-systems, such as solid state drives, are described. For example, a signaling can be received that indicates a request from a controller to migrate valid data from a first data block to a second data block. For example, the first data block can be a data block of a plurality of memory cells configured as single-level-cell (SLC) memory. The second data block can be configured as multi-level-cell (MLC) memory. The data migration operation can include an error control operation that is performed using the memory component, the error control operation excluding transferring the data to the controller. The data can be migrated from the first data block configured as SLC memory to the second data block configured as MLC memory after the error control operation is performed using the memory component.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [I] US 2015193299 A1 20150709 - HYUN JEA [US], et al
- [A] US 2019122741 A1 20190425 - CHENG CHAO-HAN [US], et al
- [A] US 2008056005 A1 20080306 - ARITOME SEIICHI [US]
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- See references of WO 2021034978A1

Designated contracting state (EPC)

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